

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 15302ZYXWAZ (HRT-176)		Application Number unassigned		
				Applicant(s) JOHN H. STEVENS, et al.				
				Filing Date herewith		Group Art Unit unassigned		
U.S. PATENT DOCUMENTS								
EXAMINER (INITIAL)	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
DI	US 2002/0111533 A1	8/15/2002	Melvin					
	US 2002/0029783 A1	3/14/2002	Stevens et al.					
	US 2002/0022880 A1	2/21/2002	Melvin					
	US 2002/0007216 A1	1/17/2002	Melvin					
	US 6,283,993 B1	9/4/2001	Cosgrove et al.					
	US 6,258,021 B1	7/10/2001	Wilk					
	US 2001/0003986 A1	6/21/2001	Cosgrove					
	US 6,224,540 B1	5/1/2001	Lederman et al.					
	US 6,221,103 B1	4/24/2001	Melvin					
	US 6,217,610 B1	4/17/2001	Carpentier et al.					
DI	US 6,197,052 B1	3/6/2001	Cosgrove et al.					
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
						YES	NO	
DI	DE3614292	11/19/1987	Germany			✓		
	0218275 A1	4/15/1987	EPO					
	0583012 A1	2/16/1994	EPO					
	WO 97/24083	7/10/1997	PCT					
DI	WO 97/24082	7/10/1997	PCT					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
DI	Huikuri, H. V., "Effect of mitral valve replacement on left ventricular function in mitral regurgitation", Br Heart F 1983; 49: pp. 328-33							
DI	Pitaru II, C. J., et al., "Long-Term Effects of Excision of the Mitral Apparatus on Global and Regional Ventricular Function in Humans", JACC, Vol. 15, No. 3, March 1, 1990, pp. 557-563							
EXAMINER			David J. Isabella Primary Examiner		DATE CONSIDERED			6/15/04

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D1		US 6,182,664 B1	2/6/2001	Cosgrove			
		6,125,852	10/3/2000	Stevens et al.			
		6,117,159	9/12/2000	Huebsch et al.			
		6,079,414	6/27/2000	Roth			
		6,024,756	2/15/2000	Huebsch et al.			
		5,984,857	11/16/1999	Buck et al.			
		5,972,030	10/26/1999	Garrison et al.			
		5,971,911	10/26/1999	Wilk			
		5,957,977	9/28/1999	Melvin			
		5,865,791	2/2/1999	Wayne et al.			
D1		5,856,614	1/5/1999	Hall			

FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
D1		WO 96/40356	12/19/1996	PCT				
		WO 9604852A1	2/22/1996	PCT				
		WO 95/16476	6/22/1995	PCT				
		WO95/06447	3/9/1995	PCT				
D1		WO 93/20742	10/28/1993	PCT				

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D1	Bolling, S. F., "Early Outcome of Mitral Valve Reconstruction in Patients with End-Stage Cardiomyopathy", The Journal of Thoracic and Cardiovascular Surgery, Vol. 109, No. 4, pp. 676-683
D1	Oe, Masahiro, et al., "Effects of preserving mitral apparatus on ventricular systolic function in mitral valve operations in dogs", The Journal of Thoracic and Cardiovascular Surgery, Vol. 106, No. 5, pp. 1138-1146

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D1		5,855,601	1/5/1999	Bessler et al.			
		5,849,005	12/15/1998	Garrison et al.			
		5,814,097	9/29/1998	Sterman et al.			
		5,810,721	9/22/1998	Mueller et al.			
		5,800,528	9/1/1998	Lederman et al.			
		5,800,334	9/1/1998	Wilk			
		5,776,151	6/16/1998	Valley et al.			
		5,758,663	6/2/1998	Wilk et al.			
		5,718,725	2/17/1998	Sterman et al.			
		5,713,954	2/3/1998	Rosenberg et al.			
D1		5,682,906	11/4/1997	Sterman et al.			

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							YES	NO
	D1	WO 93/20741	10/28/1993	PCT				
		WO 91/19465	12/16/1991	PCT				
	D1	DE4234127	5/26/1994	Germany				

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D1	Alonso-Lej, F., "Adjustable Annuloplasty for Tricuspid Insufficiency", The Annals of Thoracic Surgery, Vol. 46, No. 3, September 1988, pp. 368-369
D1	Kurlansky, P., et al., "Adjustable Annuloplasty for Tricuspid Insufficiency", Annual Thoracic Surgery, Vol. 44, October 1987, pp. 404-406

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D1		5,665,092	9/9/1997	Mangiardi et al.				
		5,593,424	1/14/1997	Northrop III				
		5,584,803	12/17/1996	Stevens et al.				
		5,571,215	11/5/1996	Sterman et al.				
		5,533,958	7/9/1996	Wilk				
		5,509,428	4/23/1996	Dunlop				
		5,501,698	3/26/1996	Roth et al.				
		5,496,305	3/5/1996	Kittrell et al.				
		5,458,574	10/17/1995	Machold et al.				
		5,452,733	9/26/1995	Sterman et al.				
D1		5,450,860	9/19/1995	O'Connor				
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							YES	NO
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D1		Boyd, A. D., et al., "Tricuspid annuloplasty", The Journal of Thoracic and Cardiovascular Surgery, Vol. 68, No. 3, September 1974, pp. 344-351						
D1		Edie, R. N., et al., "Surgical repair of single ventricle", The Journal of Thoracic and Cardiovascular Surgery, Vol. 66, No. 3, September 1973, pp. 350-360						
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D1		5,433,727	7/18/1995	Sideris			
		5,433,700	7/18/1995	Peters			
		5,391,156	2/21/1995	Hildwein et al.			
		5,385,528	1/31/1995	Willk			
		5,339,800	8/23/1994	Wüta et al.			
		5,332,402	7/26/1994	Teitelbaum			
		5,312,344	5/17/1994	Grinfeld			
		5,308,320	5/3/1994	Safar et al.			
		5,284,488	2/8/1994	Sideris			
		5,250,038	10/5/1993	Melker			
D1		5,250,049	10/5/1993	Michael			

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D1	McGoon, D. C., et al., "Correction of the univentricular heart having two atrioventricular valves" The Journal of the Thoracic and Cardiovascular Surgery, Vol. 74, No. 2, August 1977, pp. 218-226
D1	Lev, M., et al., "Single (Primitive) Ventricle", Circulation, Vol. XXXIX, May 1969, pp. 577-591

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D		5,203,776	4/20/1993	Durfee			
		5,197,979	3/30/1993	Quintero et al.			
		5,192,314	3/9/1993	Daskalakis			
		5,188,619	2/23/1993	Myers			
		5,169,381	12/8/1992	Snyders			
		Re. 34,021	8/4/1992	Mueller et al.			
		5,131,905	7/21/1992	Grooters			
		5,109,859	5/5/1992	Jankins			
		5,106,386	4/21/1992	Isner et al.			
		5,104,393	4/14/1992	Isner et al.			
D		5,104,407	4/14/1992	Lam et al.			

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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DI	Shumacker, Jr., H. B., "Cardiac Aneurysms", The Evolution of Cardiac Surgery, Vol. 21, 1992, pp. 159-165
D	Feldt, R. H., et al., "Current status of the septation procedure for univentricular heart", The Journal of Thoracic and Cardiovascular Surgery, Vol. 82, No. 1, July 1981, pp. 93-97

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01		5,041,130	8/20/1991	Cosgrove et al.				
		5,032,128	7/16/1991	Alonso				
		5,011,469	4/30/1991	Buckberg et al.				
		4,997,431	3/5/1991	Isner et al.				
		4,960,424	10/2/1990	Grooters				
		4,944,753	7/31/1990	Burgess et al.				
		4,936,857	6/26/1990	Kulik				
		4,808,163	2/28/1989	Laub				
		4,705,040	11/10/1987	Mueller et al.				
		4,690,134	9/1/1987	Snyders				
01		4,655,218	4/7/1987	Kulik et al.				
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
01		Doty, D. B., et al., "Septation of the univentricular heart", The Journal of Thoracic and Cardiovascular Surgery, Vol. 78, No. 3, September 1979, pp. 423-430						
01		Savage, E. B., et al., "Repair of left ventricular aneurysm. Changes in ventricular mechanics, hemodynamics, and oxygen consumption", The Journal of Thoracic and Cardiovascular Surgery, Vol. 134, No. 3, September 1992, pp. 752-762						
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M		4,536,893	8/27/1985	Parravicini			
		4,409,974	10/18/1983	Freeland			
		4,372,293	2/8/1983	Vijil-Rosales			
		4,261,342	4/14/1981	Aranguren Duo			
		4,192,293	3/11/1980	Asrican			
		4,173,981	11/13/1979	Mortensen			
		4,042,979	8/23/1977	Angell			
91		3,409,013	11/5/1968	Berry			

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P1	Melvin, D., "Ventricular Radius-Reduction Without Resection", A Computational Assessment, University of Cincinnati
P2	Melvin, D. B., et al., "Reduction of Ventricular Wall Tensile Stress by Geometric Remodeling Device", University of Cincinnati and CardioEnergetics, Inc., (Poster text, ASAIO, 1999)

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01	Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 29, January-June, 1955, pp. 618-620				
	Harken, D. E., et al., "The Surgical Correction of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 28, July-December, 1954, pp. 604-627				
	Bailey, C. P., et al., "Closed Intracardiac Tactile Surgery", Diseases of the Chest, Vol. XXII, July-December, 1952, pp. 1-24				
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	Glenn, W. W. L., et al., "The Surgical Treatment of Mitral Insufficiency: The Fate of A Vascularized Transchamber Intracardiac Graft", Annals of Surgery, Vol. 141, No. 4, pp. 510-518				
	Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", Surgery, Vol. 37, No. 5, May, 1955, pp. 697-620				
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	Shumacker, Jr., H. B., "Attempts to Control Mitral Regurgitation", The Evolution of Cardiac Surgery, 1992, pp. 204-210				
	Ianuzzo, C. D., et al., "Preservation of the Latissimus Dorsi Muscle During Cardiomyoplasty Surgery", Journal of Cardiac Surgery, Vol. 11, September 1996, pp. 99-108				
	Chachques, J. C., et al., "Latissimus Dorsi Dynamic Cardiomyoplasty", The Society of Thoracic Surgeons, 1989, Vol. 47, pp. 600-604				
	Moreira, L. F. P., et al., "Latissimus Dorsi Cardiomyoplasty in the Treatment of Patients with Dilated Cardiomyopathy", Circulation, 1990, Vol. 82				
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EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
D	Lucas, C. M. H. B., et al., "Long-Term Follow-Up (1 to 35 Weeks) After Dynamic Cardiomyoplasty", Journal of American College of Cardiology, Vol. 22, No. 3, September 1993, pp. 758-767		
	Batista, R. J. V., et al., "Partial Left Ventriculectomy to Improve Left Ventricular Function in End-Stage Heart Disease", Journal of Cardiac Surgery, 1996; 11: pp. 96-97		
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	Bach, D. S., et al., "Early improvement in congestive heart failure after correction of secondary mitral regurgitation in end-stage cardiomyopathy", American Heart Journal, June 1995, Vol. 129, No. 6, pp. 1165-1170		
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	ABIOMED, Annual Report, 1996, for the Fiscal Year Ending March 31, 1996		
	Medtronic 1996 Annual Shareholders Report		
D	Invited Commentary: Preservation of Muscle During Surgery, pp. 109-110, On "Preconditioning of Skeletal Muscle: Application to Dynamic Cardiomyoplasty" by C. David Iannuzzo, et al		
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01	Carpentier, A., et al., "Myocardial Substitution with a Stimulated Skeletal Muscle: First Successful Clinical Case", Letters to the Editor, page 1267, September 1996		
	"Congestive Heart Failure in the United States: A New Epidemic", NHLBI Congestive Heart Failure Data Fact Sheet, National Heart, Lung, and Blood Institute, National Institutes of Health, http://www.nhlbi.nih.gov/ahlb/cardi/other/gp/CHF.htm		
	"Heartmate System Becomes First Implantable Cardiac-Assist Device to be Approved to Commercial Sale in the U.S., Study Shows New Artificial Heart Technology Can Double The Rate of Survival for Heart Transplant Candidates", TCI Thermo Cardiosystems Inc. News Release, October 3, 1994		
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	ABIOMED NEWS, For Immediate Release, ABIOMED's Temporary Artificial Heart System Reaches 200 U.S. Medical Center Milestone, September 26, 1996		
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	ABIOMED NEWS, For Immediate Release, ABIOMED Wins NIH Grant to Develop Calcification-Resistant Plastic Heart Valve, September 29, 1995		
	ABIOMED NEWS, ABIOMED Wins Research Grant From NIH to Develop Suturing Instrument for Abdominal Surgery, August 25, 1995		
	ABIOMED NEWS, For Immediate Release, ABIOMED Receives Grant from NIH to Develop Disposable Bearingless Centrifugal Blood Pump, August 11, 1995		
	ABIOMED NEWS, ABIOMED Receives Grant From National Institutes of Health To Develop a Laser Welding Technique for Tissue Repair, June 9, 1995		
	ABIOMED NEWS, For Immediate Release, ABIOMED'S Temporary Artificial Heart System Reaches 1,000 patient Milestone; BVS-5000® in More than 100 U.S. Medical Centers, April 27, 1995		
01	THORATEC™ Brochure, January 2, 1997		
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D		Reversible Cardiomyopathy, 88 Days of Biventricular VAD Support as a Bridge to Recovery, THORATEC'S HEARTBEAT, Vol. 10.2, August 1996	
		Gundry et al. "A Comparison of Retrograde Cardioplegia Versus Antegrade Cardioplegia in the Presence of Coronary Artery Obstruction," Ann. Thorac. Surg., Aug. 1984, 38:2, 124-127	
		Lust et al. "Improved Protection of Chronically Inflow-limited Myocardium with Retrograde Coronary Sinus Cardioplegia," Circulation III, Nov. 1988, 78:5, 217-223	
		Crooke et al., "Biventricular Distribution of Cold Blood Cardioplegic Solution Administered by Different Retrograde Techniques," J. Cardiac Thorac. Surg., 1991, 102:4, 631-636	
		Sabiston, D. C., Textbook of Surgery, 10th Ed., 1972, pp. 2021-2023, pp. 2114-2121	
		Buckberg, G. D., "Strategies and Logic of Cardioplegic Delivery to Prevent, Aoid, and Reverse Ischemic and Reperfusion Damage," J. Thorac. Cardio. Vasc. Surg., 1987, 93:127-139	
		Razi, D. M. "The Challenge of Calcific Aortitis," J. Cardiac Thorac. Surg., 1993, 8:102-107	
		Coltharp, William H., et al. "Videothorascopy . . ." Ann Thorac Surg 1992; 53:776-9	
		Jamieson, W. R. Eric. "Modern Cardiac Valve Devices-Bioprostheses and Mechanical Prostheses" J Card Surg. 1993;8: 89-98	
		Landreneau, Rodney J., et al. "Video-Assisted Thoracic Surgery . . ." Ann Thorac Surg 1992; 54:800-7	
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7		Magovern, George J. "Sutureless Aortic and Mitral Prosthetic Valves" J. Thoracic and Cardiovasc Surg 1964; 48(3): 346-361	
EXAMINER	David J. Isabella Primary Examiner		DATE CONSIDERED 6/15/04
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional)	Application Number
		15302ZYXWAZ (HRT-176)	unassigned
		Applicant(s) JOHN B. STEVENS, et al.	
		Filing Date	Group Art Unit
		herewith	unassigned

EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
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